# **Amphenol Star-Line®** Series Connectors



# HEAVY DUTY ELECTRONIC CONNECTORS FOR HARSH ENVIRONMENTS

Heavy-duty, multi-pin, electrical connector designed for rugged and harsh environments. One-piece, two-keyed shell, coupling nut, cable adapter, gland and clamp nut are constructed of high-grade machined aluminum with a hard coat finish for superior corrosion resistance. Formerly Pyle Star Line.

#### **FFATURES**

#### UL & CSA

Listed to UL1977/CSA C22.2 requirements.

#### **ENVIRONMENTAL RESISTANCE**

Design and materials withstand the most challenging operating conditions. Series has an IP68 rating.

#### **EASILY ACCESSIBLE WIRE TERMINALS**

Conductors are readily terminated to contacts. Cable housings are slipped over conductors or leads after terminating. Cumbersome handling and seating of inserts with conductors attached is eliminated.

#### LARGE WIRING SPACE

Ample wiring space is provided in cable housings and hardware.

#### **REVERSIBLE INSERTS**

A full range of contact inserts for power, signal and mixed applications are available. All are interchangeable and reversible to suit specific needs.

### **DOUBLE-LEAD THREAD COUPLING**

Modified Acme Thread does not clog under adverse conditions of ice, snow, sand or mud and provides the quick coupling feature.

#### HARD ANODIC COATING

All machined aluminum parts finished with a hard, scratch-resistant coating per MIL-A-8625, Type III. Dielectric strength 1800 volts. Heat resistance of 750°F.

### HIGH TENSILE STRENGTH ALUMINUM

Bar Stock Components precision machined. Points of impact designed for extra strength.

### RADSOK® HIGH AMPERAGE CONTACTS

Special arrangements are available with RADSOK high amperage contacts. Standard Star-line EX inserts are not interchangeable with new RADSOK contact insert arrangements.

## **ROHS COMPLIANT PRODUCT AVAILABLE**

# TECHNICAL SPECIFICATIONS

# **MATERIALS AND FINISHES**

Shell	Aluminium Alloy
Shell Plating	Hard Anodic
Contacts	Copper Alloy
Contact Platings	Silver or Gold Plated
Seals	Buna Rubber

# **ELECTRICAL DATA**

Wire Range Sizes 18 to 777MCM

## Current Rating

Ourtent nating			
CONTACT SIZE	MAX. CURRENT RATING PER CONTACT AMPS		
18	3		
16	16		
12	30		
10	40		
8	50		
4	90		
1/0	155		
4/0	225		
313MCM	325		
350MCM	325		
373MCM	Contact us		
444MCM	Contact us		
500MCM	750		
535MCM	Contact us		
646MCM	940		
777MCM	1,135		

# **MECHANICAL**

Operating Temperature -67°F to +257°F (-55°C to +125°C)

Insulation Strip Length

ı				
STRIP LENGTH - SOLDER		STRIP LENGTH - CRIMP		
INCHES	MM	INCHES	ММ	
0.284	7.2	0.453	11.5	
0.284	7.2	0.575	14.6	
0.343	8.7	0.611	15.5	
0.469	11.9	0.674	17.1	
0.595	15.1	0.827	21.0	
0.658	16.7	0.906	23.0	
0.721	18.3	1.221	31.0	
0.721	18.3	1.221	31.0	
0.843	21.4	1.319	33.5	
0.843	21.4	1.319	33.5	
0.843	21.4	1.319	33.5	
1.969	50.0	1.969	50.0	
1.969	50.0	1.969	50.0	
1.969	50.0	1.969	50.0	
1.969	50.0	1.969	50.0	
500 cycles				
300 days				
10g				
60g				
IP68				
Solo	Solder, Crimp, Power, Signal and Coax			
1 tc	1 to 143			
Key	Keyway with optional insert orientation			
UL #E184393				
	STRIP LENG INCHES  0.284  0.284  0.343  0.469  0.595  0.658  0.721  0.721  0.843  0.843  0.843  1.969  1.969  1.969  1.969  1.969  1.969  500  300  10g  60g  IP66  Solo  1 to	STRIP LENGTH - SOLDER   INCHES   MM	STRIP LENGTH - SOLDER         STRIP LENG           INCHES         MM         INCHES           0.284         7.2         0.453           0.284         7.2         0.575           0.343         8.7         0.611           0.469         11.9         0.674           0.595         15.1         0.827           0.658         16.7         0.906           0.721         18.3         1.221           0.843         21.4         1.319           0.843         21.4         1.319           0.843         21.4         1.319           1.969         50.0         1.969           1.969         50.0         1.969           1.969         50.0         1.969           1.969         50.0         1.969           1.969         50.0         1.969           1.969         50.0         1.969           500 cycles         300 days           10g         60g           IP68         Solder, Crimp, Power, Signal and Coax           1 to 143         Keyway with optional insert orientation	